



# INTERNATIONAL QL REPORT

*The Definitive Information Source*

*Published by SeaCoast Services*

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*July/August  
1992*

Vol. 2 No. 2

\$5.00

*15 Kilburn Court, Newport, Rhode Island, USA 02840*



# Jochen Merz Software

Software-Development - QL-Soft-&Hardware Distributor

Im stillen Winkel 12 - W-4100 Duisburg 11

Telephone and Fax : 0203-501274 Germany

**Jochen Merz Software**

NEWS .. NEWS .. NEWS

Jochen Merz Software is the largest supplier of high quality software that runs under QJUMP's Pointer Environment (PE). This hardware-independent environment is the very advanced and easy to use windowing system for QDOS, that is the path to the future for QL users. We support the PE by supplying software development tools, documentation and the QL-Emulator. For more details on our complete range of products write or send a fax!

**QD Version 4** - The first (and only) Editor using the PE. Dynamic memory allocation, no limit on nrs of lines, comfortable block-handling and many, many new features, e.g. improved print menu, better search/replace, GOTO Procedure and Function, even Machine code label. With new Menu Config which allows you to configure all programs using the standard CONFIG block, but menu driven. **£38 DM 112,10 \$60.80**

**QMenu - the Menu Extension V3** QMenu is a very easy to use interface with pre-defined menus (e.g. multi-column file-select, simple-choice boxes, select from lists, error handling). These menus may be used from SuperBASIC, machine code and other languages. **£13 DM 38,35 \$20.80**

**QSUP - System Utility Package** Different sorts of programs and extensions which help you setting up and using your machine (e.g. Translation-Table Editor, Notepad). **£26 DM 76,70 \$41.60**

**Thing & EPROM Manager** Do you want to put your Extensions, Things, Jobs etc. into EPROM? The EPROM Manager helps you by creating files which are ready-to-burn. It contains also the very useful Thing Extension II, which gives you full control over Things from SuperBASIC. **£18.50 DM 54.58 \$29.60**

**Fifi - the FileFinder** Running under the PE, Fifi is easy to use and extremely useful. Fifi scans devices or directory trees and searches files or filenames for strings. Combinations are possible, e.g. String1 AND string2 BUT NOT string3 etc. **£13 DM 38,25 \$20.80**

**DISA - Intelligent Disassembler** which allows you to disassemble interactively any kind of machine-code. Pointer-controlled. **£27 DM 80 \$44**

**QDOS Reference Manual** - This book is a must for all m-code programmers. It explains how to use QDOS, all traps and vectors, the Thing System, the HOTKEY System II and much more. It points out which features work on a QL, an Emulator and how to write compatible for future operating systems. DIN A5, over 170 pages. **£27 DM 80 \$44**

**QPTR - The Pointer Environment Toolkit** Revised manual which describes how to use the Pointer Interface and the Window Manager from SuperBASIC and machine code, even how to setup standard CONFIG tables. QPTR comes with examples on disc. All necessary keys, macros and extensions for SuperBASIC are supplied. **£30 DM 88,50 \$48**

**FLP/RAM Level 2** - Replacement EPROM for SuperQBoards (V1.17 onwards, with & without mouse) or TrumpCard (please specify)! Real sub-directories! QL-Emulator and Gold-Card compatible! With ATR-device (to read and write MS-DOS/ATARI discs). About twice as fast, with improved slave-block-handling! (Not JM ROMs!) **£18 DM 53,10 \$28.80**

**EASYPTR II** - Create your own PE menus & sprites, use them in your own SuperBASIC or machine-code programs. Creating Menus was not easy, until now! Put all the items you need on screen, that's it! Many examples and improved manual! **£49 DM 144,55 \$78.40**

**QDesign II - Graphic- and Design-program**. Running completely under the PE! Supports the Extended Mode4. Do you think anything else is to say about a very good graphics program?!

For all 9 and 24 pin printers, Deskjet and Laserjet **£48 DM 140 \$77**

Font-Vector-Editor for QDesign **£19 DM 56,05 \$30.40**

**SYSTEM - System Tools for QDOS**: real file-attributes are added, e.g. write-only, hidden or for selected users only. Works even over net and on winchester. New TRAP#3. New devices (equivalent to QL-Emulator): named pipes, MEM, NUL 80 new procs & functions, e.g. WSET\_FATTR, WSET\_FTYPE, WSET\_FVERS, ADIR, ASTAT, HK\_GETBFS. **£27.50 DM 85,- \$45**

**NEW: SER Mouse** - Software driver which allows you to connect a serial (e.g. DOS) mouse to one of the serial ports of the QL which then mimics the QIMI interface. In addition to the functions of the QIMI, if you have a three-button mouse the following features are available: ESC on centre button, left+centre is Wake, right+centre is Sleep. **£14.90 DM 44 \$25**

**ZX8301 £5.90 DM 17,41 \$9.44**

**ZX8302 £5.90 DM 17,41 \$9.44**

## QL-Emulator for ATARI ST

If you are interested in buying a QL-Emulator for the ATARI ST range and you still do not know what you will get, then you should write to get more information. **£139 DM 376 \$225**

New Emulator initialisation software together with Level E.15 or higher plus full support of 68020/68030 boards is coming soon!

Games			
Diamonds	£11	DM 32,45	\$17.60
BrainSmasher	£12	DM 35,40	\$19.20
Arkanoid	£10	DM 29,50	\$16
Firebirds	£10	DM 29,50	\$16
SuperGamesPack	£25	DM 73,75	\$40
QShang	£14	DM 41,30	\$22.40

## The lonely Joker!

The lonely Joker is a solitaire card game based on three different patiences: Echelon, Napoleon and Cascade. All three games are very addictive, with different variations. It is easy to control by mouse or keyboard and runs under the PE. System requirement: 384k RAM and Toolkit II.

**£14.90 DM 44 \$25**

## NEW! NEW! NEW! NEW! NEW!

### A Spreadsheet running under the Pointer Environment!

**QSpread** is completely mouse- and keyboard- controllable and uses, of course, the Menu Extension. Windows may be enlarged up to the maximum screen area (i.e. large parts of the table visible on the Extended4-Emulator and forthcoming larger screen sizes), the application window may be split in up to three different horizontal and vertical sections, giving 9 independent controllable areas.

**QSpread** is, in the opposit to Abacus, formulae-orientated, giving the advantage that the formula of every cell may be modified at any time (whereas Abacus sometimes gives the numerical value of a calculation only). The formulae-parser has 22 scientific function, and, of course, the standard ones like row(), column(), sum, average etc. Every cell may be formatted independently, with many options (justification, decimal point etc.) and with preview. The monetary symbol may be longer than one character, e.g. DM. Sum- and other often-used macro-functions.

The size of the sheet is only limited by memory (16000 cells need about 400kBytes).

Easiest block handling by mouse. Block entry is very easy and useful, especially if you have a numerical pad: you select the block and enter the values one after the other. They are automatically place in the right order. No cursor-keys-action necessary!

Many additional functions, which belong to today's standard-equipment! Help, Button-function, use of the Scrap, all standard file operations, calculation order row or columns etc.

**QSpread introductory price £49 (available in July)**

## Updates

Our update policy is very generous: updates on most products are free! Upgrades (i.e. major improvements on the products) are available at small charges. In general you only have to pay if new manuals are required. For updates and upgrades, just return the original disc and enough return postage (none, if updates come with an order, £2 (DM 5,90 \$3.20) for up to 5 discs or £4 (DM 11.80 \$6.40) for more.

**Upgrade to QD Version 4 from V3 £10 DM 29,50 \$16**

**Upgrade to QSUP from QSYS I or II £19 DM 56,05 \$30.40**

**Upgrade to QPTR (with new manual) £14 DM 41,30 \$22.40**

**Upgrade to EasyPTR II from V1 £13 DM 38,35 \$20.80**

**Upgrade to QDesign Version II £13 DM 38,75 \$20.80**

**New Emulator manual £6 DM 17,70 \$9.60**

**We are selling the full range of Software87 products in German and English!**

Please add **£4.50 (DM 13.20)** for postage and package (Europe) or **£7** for one item and **£4** for every further item (Overseas). No extra charge on credit cards! All prices exd. VAT & O.E.





## EDITORIAL

NEWPORT, RHODE ISLAND, USA - THE EDITORIAL STAFF

With the approach of summer in the Northern Hemisphere, comes a wealth of NEW products for the QL. Some like **HERMES**, a new co-processor, and **QSPREAD**, a new spreadsheet are major developments (see the articles pertaining to them in this issue).

Others can be considered to be major upgrades. In this category are two offerings by Digital Precision of the UK; the first is "**GOLD CONQUEROR**" (software PC emulator), and the second is "**GOLD PERFECTION**" (Word Processor). As the prefix **GOLD** would indicate, both have been re-worked to take **FULL** advantage of Miracle's Gold Card.

On the Public Domain/Shareware front, two major offerings (both in the language category) are **eFORTH** from SPAIN, and Version 3 of the **C-68 Compiler** (we expect to have both of these by the time you read this. Contact Bob at IQLR for details).

We have finally received the **D-I-Y TOOLKIT** (see IQLR vol. 2 issue 1) from the UK, and can supply the three disks in 3.5" and 5.25" 720K format (sorry, not available on microdrive cartridges). The price is \$50.00 plus \$5.00 S & H in North America and \$50.00 plus \$7.00 S & H to the rest of the world.

We have a number of new software programs from C.G.H. SERVICES, and one from N.A.S.A. the Norwegian All Sinclair Association. All of these programs are commercial offerings and have been sent to us for REVIEW. They are:

"**SToQL**" this is a Atari ST screen transfer and image processing program for the QL written by Rich Mellor and Alan Pemberton.

"**SCRIPTWRITER**" is the successor to QL Playwright and is a text processor and formatting program written by Andy Pritchard.

"**3D TERRAIN**" is a program to generate 3D graphical representations of Abacus spreadsheet data written by Ian Thompson and Rich Mellor.

"**ROCK-FALL**" is a Boulderdash Clone for the QL written by Andrew Toone.

"**DICEY BUSINESS**" from Norway is a Football Manager (SOCCER) program. This program requires a knowledge of Soccer and was written by Johnny Vik.

If you'd be interested in reviewing one of these programs for a future issue of IQLR, we'd like to hear from you. For those of you that have always wanted to contribute an article to one of the QL newsletters or other publications, this is a painless way to get your feet wet.

**ANNIVERSARY ISSUE** : We'd be remiss, if we didn't thank all of you who took the time to write or call, congratulating IQLR on our Anniversary Issue. We'll try to live up to your accolades.

## NEWS FROM MIRACLE SYSTEMS

OSBALDWICK, YORK, UNITED KINGDOM

Miracle is now shipping their re-designed **DISK ADAPTER** (allows the use of up to 4 disk

## NEWS FROM MIRACLE - cont'd

drives with Trump or Gold Cards), and they are presently re-designing their QL CENTRONICS interface, we've been told that the new version will fit under the hood of a Centronics male connector and eliminate the need for the box.

They are continuing to work on the many new projects mentioned in our last issue. Miracle can be reached at:

MIRACLE SYSTEMS LTD  
25 Broughton Way  
Osballdwick, York YO1 3BG  
United Kingdom  
Tel: 0904 423986

Also reported, they have turned over the rights of the TRUMP CARD (768K of additional memory plus disk drive interface), and EXPANDERAM (a 512K memory add-on) to Ron Dunnett of QUBBESOFT. Ron is shipping the TRUMP CARD with a new A4 (approx. 8.5" X 11.5") manual. For more information on TRUMP CARDS or EXPANDERAMS contact Ron at:

QUBBESOFT  
38 Brunwyn Road  
Rayne, Braintree, Essex CM7 5BU  
United Kingdom  
Tel: 0376 347 852

*Ed. Note: Ron Dunnett was recently elected Chairperson of QUANTA, Phil Borman did not stand for re-election but remains a Committee Member.*

## MATCHER : An ARCHIVE Utility Program

CORNISH, NEW HAMPSHIRE - U.S.A. - BILL CABLE

We have all had the experience of receiving 2 or 3 copies of the same catalog each with a slightly different version of our address on it. Mail order companies buy address databases from many sources and often the same address may be in more than one in a slightly different form. This fools the company into mailing multiple catalogs to the same address. Even a simple weeding of addresses would save a lot of mailing and printing costs. There is no doubt that having a database of specialized information can be an extremely valuable commodity. But one also needs to have the programming power to screen the data and verify its consistency.

I recently had such a need with some ARCHIVE address databases. I wanted to do a mailing using my own and another one provided to me. First I used some utilities on my DBProgs disk. I made the fields match (refield program) and then joined them (join program). But at the time, I didn't have a program designed to locate duplicate addresses and so did it as best I could manually. I found most of them and got my mailing out.

I decided to write a program to help me do a better job next time and listed below you see the results. I call it MATCHER because its basic function is to find fields that match in any ARCHIVE database. It matches on only one field but because it orders on up to 4 fields you effectively get matching on up to 4 fields if the matching field is the last in the order

## MATCHER - cont'd

sequence. Even though I convert everything to lower case for matching to eliminate upper/lower case differences, I felt I needed a way to match even with simple misspellings and spacing differences. I added a matching option called 'fuzzy' which strips out all spaces and characters not a-z and eliminates any double characters (so O Riley and O'Riley would both match as oriley). The string manipulations needed to for 'fuzzy' matching slowed the program down considerably but when I ran it I found 2 duplications in my address database I hadn't known about before.

Not all ARCHIVE users have address databases or care about checking for duplicates. So I added a single line display option that creates reports giving the distribution of values in a field. Instead of focusing just on matches it shows everything in the database. It is easy to make a listing of people in each state (country, city, etc) in an address database. In the GAZET database supplied with ARCHIVE you can get a list of countries by continents or countries by population, etc. Any ARCHIVE user can display and print information in their databases in new and interesting ways. I also added options like printing output and suppressing displays so the program can multitask unobtrusively and print to the printer while you are doing other computing.

All ARCHIVE users should have this utility handy. It is easily modified for special applications. It takes enormous effort to build databases so we need all the help we can get to maintain that investment. I have sacrificed some clarity by arranging the code to maximize line length but not exceed 80 characters. This greatly reduces the length of the listing. You don't have to know the ARCHIVE language to type it in. And running it is the best way to learn how to use it. The program is easy to run but complex in coding. The documentation is sparse because of space limitations. Typing it in while consulting the ARCHIVE documentation is a very good way to learn ARCHIVE programming. This is a new program and I have debugged it as much I can but be watchful and please report any bugs to me. Although the database is only accessed by 'look' and is not vulnerable, you should always have backup copies of your files. This utility is in the public domain and will be available from various libraries. An enhanced version of this program plus many other useful ARCHIVE utilities are available from me as DBProgs for \$19.95 :

Wood and Wind Computing  
RR3 Box 92  
Cornish, NH 03745  
(603) 675-6081

For those who are interested in learning more about ARCHIVE, I recommend my articles in past and future issues of UPDATE MAGAZINE, P O Box 1095, Peru, IN 46970.

To enter the program just start ARCHIVE, type: EDIT<ENTER> and enter it procedure by procedure. The ARCHIVE editor will automatically indent like the listing. If your indentions don't match the listing then you have a mistake. Exit the editor to save (SAVE command) or print (LLIST command) the program. To run the program you need to load it, if it isn't already (LOAD command), and type: matcher<ENTER>. Those of you who typed in my REPLACE program appearing in a previous IQLR issue have already done half the work. You only need add those procedures that are new and delete those not in the listing (if desired).

Test it out on the GAZET database by displaying country, continent, and capital and ordering on continent, country. Use the single line display and match on continent. You

## MATCHER - cont'd

will get a list of each continent with its countries in alphabetical order. Try ordering by population, country and then currency, country. In an address database to get a list of people by state (country, city) first set up display as you wish then match on state (country, city) and use single line display. To find duplicates in an address database set up the display as desired, order by first name, last name and match on last name and use multiple line display. Only matches will be displayed. Try again ordering by street, last name. Try again with 'fuzzy' matching (runs slow). The range of the database determines the best strategy for finding duplicates. If you want to stop at any time just press <ESC> a few times and you can start over.

Happy Achiving Bill Cable 6/92

## LISTING OF MATCHER

```
proc acky;line,m$,v$
  rem Prints message (m$) at line and asks for <ENTER> to be pressed
  liny;line,v$: print v$;m$;". Press <ENTER> : ";v$;: input i$:liny;line,""
endproc
proc close_all
  rem Closes files until there are no more to close
  while 1: close : endwhile
endproc
proc columns
  rem Figures out how many equal columns will fit on a line
  let i=0: let j=0: while i<>len(fl$): let i=instr(fl$(i+1 to len(fl$)),"")+i
    if i: let j=j+1: endif : endwhile : let col=int(79/j)
endproc
proc defy;line,m$,d$,v$
  rem Requests input and returns value in ans$ (m$-message, d$-default value)
  liny;line,v$,"": print v$;m$;" [<ENTER> if "";d$;""] : ";inp
  if ans$="": let ans$=d$: endif : if ans$="\": let ans$="": endif
  print at line,len(m$)+1;" : ";rv$;" "ans$;" ";rv$; tab 80;v$;
endproc
proc displaying;l
  rem Displays and prints matches in multiple or single line format
  let i$=fl$: let i=instr(i$,""): if l and mld: print at l,0;: endif
  let j=0: let k=cnt+4: if k>21: let k=23: endif
  while i: let fn=int(val(i$(1 to i))): if fn>=0 and fn<numfld(): let j=j+col
    if l: if mld: print fieldn(fn); tab 13;" : ";fieldv(fn); tab 79
      else : if j=col: print at k,0;: endif : if fieldt(fn)
        let l$=fieldv(fn): else : let l$=str(fieldv(fn),3,0): endif
        let l$=" "+l$
        if len(l$)>col: let l$=l$(1 to col): endif : print l$; tab j;: endif
      else : if mld: lprint fieldn(fn); tab 13;" : ";fieldv(fn)
        else : lprint " "fieldv(fn); tab j;: endif : endif : endif
    if i<len(i$): let i$=i$(i+1 to len(i$)): let i=instr(i$,""): else
      let i=0: endif : endwhile : if not sup and not mld: print tab 79;: endif
  endwhile
endproc
proc field_show
  rem Shows fields of a database in more than one screen if necessary
  let pg=1: cls
```

## MATCHER - cont'd

```

print "Fields of ";dv$;db$; tab 40;count(); " records"; tab 70;"page ";pg
let i=0: let r=2: let c=1: while i<numfld(): let i$=num(i,3)
  print at r,wid*(c-1);i$;" ";fieldn(i);: let i=i+1: let r=r+1
  if r>rows+1: let c=c+1: let r=2: if c>cols and i<numfld()
    input at 23,1;"Press <ENTER> for more : ";i$: let c=1
    let pg=pg+1: cls : print "Fields of ";dv$;db$; tab 70;"page ";pg
  endif : endif : endwhile
endproc
proc fuzy;i$
  rem Eliminates all characters except a-z and takes out repeated characters
  let ans$="": if i$<>"": let i$=lower(i$): let i=len(i$): let j$=""
  while i: let j=code(i$(i)): if j>=97 and j<=122 and j$<>i$(i)
    let ans$=i$(i)+ans$: let j$=i$(i): endif : let i=i-1: endwhile : endif
endproc
proc header;i$
  rem Clears screen and prints heading
  paper spap: cls : paper hpap: ink hink: print rept(" ",160);
  print at 0,1: tab (80-len(i$))/2;upper(i$); at 3,0:; paper spap: ink sink
endproc
proc inp
  rem Reverses screen and receives input
  print rv$;: input " ";ans$;" ": print rv$;
endproc
proc inpy;line,m$,v$
  rem Prompts for input with message (m$), use v$ to reverse screen
  liny;line,v$: print v$;m$+" : ";:inp: print v$;
endproc
proc key_choice;i,i$,j$,k$
  rem Prompts for single key input which must be in j$ before returning
  let ans$="": while not instr(j$,ans$) or len(ans$)<>1
    print at i,0;k$: tab 80; at i,1;i$;" : ";rv$;" ";rv$;k$;
    let ans$=lower(getkey()): if not instr(j$,ans$)
      acky;i;"Press the SINGLE KEY corresponding to the desired action",rv$
    endif : endwhile : print k$;rv$;ans$;" ";rv$; tab 80;k$;
  endproc
proc liny;line,v$
  rem Clears at line specified
  if line
    print at line,0;v$: tab 80;v$;: print at line,1;: else : print : endif
  endproc
proc make_tmp
  rem Set up temporary file to hold output (used to hold program to be merged)
  spoolon dx$+"matcherx_tmp" export
endproc
proc matcher
  rem Main program. Gets scratch device and loops on databases
  error close_all: let clw$=chr(27)+"B":rem clears below cursor
  mode 0: let ign=0: let hpap=5: let hink=0: let spap=0: let sink=5: let lt$=""
  let rv$=chr(0)+chr(26): let rows=20: let cols=4: let wid=80/cols: let kc$=""
  header;"MATCHER : a record matching program for archive databases"

```



## MATCHER - cont'd

```

print at 2,38;"V1.0 For Public Domain Bill Cable 6/92"; at 4,0;
print "Display (and print) records matching on a field within any database."
print " Matching can be exact (case ignored) or 'fuzzy' plus there are many"
print " other options. The program runs fastest using files in RAM.": print
print "One important use is to find duplicate records in an address database."
print " Breakdowns by fields such as addresses in each state or whatever can"
print " be easily made. Clever ordering will yield all sorts of information"
print " in a database. The database is accessed by 'look' and is not altered."
defy;13,"Device for scratch pad (ram1_,flp1_,mdv1_,etc)","ram1_","
if ans$="": mode 1: stop : endif : let dx$=ans$
msg;14,"checking scratch pad",""
error make_tmp: if errnum(): let i$=str(errnum(),2,0)
    acky;23,"Scratch pad access of device "+dx$+" failed. Err = "+i$,""
    mode 1: stop : else : spooloff : endif
while 1
    defy;23,"Source database device (ram1_,flp1_,mdv1_,etc)","ram1_",""
    let dv$=ans$: dir dv$:inpy;23,"Database name [ Will not be altered ]",""
    if ans$="": mode 1: stop : endif : let db$=ans$
    if not instr(db$,"_"): let db$=db$+"_dbf": endif : look dv$+db$:field_show
    print at 22,0;"Below separated by commas list field numbers for display"
    defy;23,"Field numbers to display","0","": let fl$=ans$+","
    if fl$(1)="": let fl$="0"+fl$: endif :columns
    print at 22,0;"Now list field numbers for ordering (separated by commas)"
    defy;23,"Field numbers to order on (max of 4)","0","": let dl$=ans$+","
    if dl$(1)="": let dl$="0"+dl$: endif
    liny;22,"":set_ord:match_loop: error close_all
    yorn;23,"Files Closed. Do another",""
    if ans$="n": mode 1: stop : endif
endwhile
endproc
proc match_check
    rem Check for match and displays (and prints) as necessary
    next : if not eof():to_text: if xfl$=xf$
        if ign: if fieldt(xf): if xf$="": let ism=0: return : endif
            else : if xf$="0": let ism=0: return : endif : endif : endif
        let mcnt=mcnt+1: let cnt=cnt+1: if not sup: print at 3,58;mcnt;" "
        endif : back : if not sup and mld:displaying;5: endif
        if prt and mld: lprint : lprint "MATCH ";mcnt:displaying;0: endif
        let ism=1: next : if not sup:displaying;14: endif : if prt: lprint
            displaying;0: endif : if qry: let i$=str(mcnt,2,0)
            key_choice;23,"Match "+i$+" ". Press key - C(ontinue) E(xit) ","ce",""
            if ans$="e": last : endif : endif
        else : let ism=0: endif : else : let ism=0: endif
    endproc
proc match_loop
    rem Loops on specified database to set options and match
    while 1:header;"Finding matches in "+dv$+db$
        print at 2,2;"Order : ";ord$: tab 60;"Match on ";fieldn(xf)
        yorn;5,"Setup Matching using currently defined order",""
        if ans$="n": return : endif : if f2<0-1
            let i$="": let j$="":yorn;6,"Match on field "+fieldn(xf),"": if ans$="n"

```



## MATCHER - conf'd

```

        if f4<=1: let i$="4": let j$=" 4) "+fieldn(f4): endif : if f3<=1
            let i$=i$+"3": let j$=" 3) "+fieldn(f3)+j$: endif : let i$=i$+"2"+"1"
            let j$="Choose Match field 1) "+fieldn(f1)+" 2) "+fieldn(f2)+j$
            key_choice;6,j$,i$,"": let xf=value("f"+ans$): endif
        print at 2,69;fieldn(xf): endif
    yorn;7,"Use multiple line display (instead of single line) of matches", ""
    if ans$="y": let mld=1: else : let mld=0: endif
    yorn;8,"Pause on each match", ""
    if ans$="y": let qry=1: else : let qry=0: endif
    yorn;9,"Print matches to printer", ""
    if ans$="y": let prt=1: else : let prt=0: endif
    yorn;10,"Suppress displays to screen (if multitasking)", ""
    if ans$="y": let sup=1: else : let sup=0: endif
    yorn;11,"Use fuzzy matching in "+fieldn(xf), ""
    if ans$="y": let fuz=1: else : let fuz=0: endif
    yorn;12,"Ignore empty matches in "+fieldn(xf), ""
    if ans$="y": let ign=1: else : let ign=0: endif
    if prt: let i$=" (have printer online)": else : let i$="": endif
    yorn;23,"Do matching as specified"+i$, ""
    if ans$="y": first : let mcnt=0: let i=count():liny;23,"": if not sup
        print at 3,1;clw$: tab 20;"Of ";i;" have checked   and matched  0"
        else : print "Checking ";i;" records for matches (printing suppressed)"
        endif : if prt: lprint "MATCHING RECORDS in "+dv$+db$: let j$=""
        if fuz: let j$="Fuzzy ": endif
        lprint " Records : ";i; tab 25;"Order : ";ord$
        lprint tab 50;j$;"Match on ";fieldn(xf): lprint
        lprint : endif : let ism=0: let cnt=0: while not eof()
            if not sup: print at 3,41;recnum()+1:; endif : if not ism
                to _text: let xfl$=xf$: let lcmt=cnt: let cnt=1: if not mld: if not sup
                    print at 4,1;clw$;fieldv(xf); " Matches":displaying;1: endif
                    if prt: if recnum()<0: lprint tab 72;" ";lcmt: endif
                    lprint : lprint fieldv(xf); " Matches":displaying;0: endif
                endif : endif :match_check: endwhile
            acky;23,"Matching complete with "+str(mcnt,2,0)+" matches", "" : endif
        endwhile
    endproc
proc msg;line,m$,v$
    rem Prints message (m$) at line in normal or reverse (v$)
    liny;line,v$: print v$;"{"+"m$+"}";v$;
endproc
proc ordering
    msg;23,"ordering flp2_qlmail_dbf", ""
    order s7_$;a,s1_$;a
endproc
proc set_ord
    rem Takes ordering list and sets up ordering procedure and does it
    msg;23,"setting up ordering procedure", ""
    let k=0: let f1=-1: let f2=-1: let f3=-1: let f4=-1
    let i$=dl$: let j$="": let i=0:set_ord2
    if j>=0 and j<numfld(): let f1=j:set_ord3: let xf=f1
        if i<len(i$):set_ord2

```

## MATCHER - cont'd

```
if j>=0 and j<numfld(): let f2=j:set_ord3: let xf=f2
if i<len(i$):set_ord2
if j>=0 and numfld(): let f3=j:set_ord3: let xf=f3
if i<len(i$):set_ord2
if j>=0 and numfld(): let f4=j:set_ord3: let xf=f4
endif : endif : endif : endif : endif : endif : endif
if j$<>"": let j$=j$(1 to len(j$)-1): endif : let ord$=j$
make_tmp: lprint "proc ordering"
lprint "msg;23,'ordering ";dv$;db$;"", ""
lprint "order ";ord$: lprint "endproc"
spooloff : merge dx$+"matcherx_tmp":ordering
endproc
proc set_ord2
rem Strips field numbers out of comma list
let i$=i$(i+1 to len(i$)): let i=instr(i$, ",")
if i>1: let j=val(i$(1 to i-1)): else : let j=-1: endif
endproc
proc set_ord3
rem Puts field names in ARCHIVE order command format
let j$=j$+fieldn(val(i$(1 to i-1)))+";a"+","
endproc
proc to_text
rem Puts match field in xf$ whether text field (fuzzy) or numeric field
let xf$="": if fieldt(xf): if fuz:fuz;fieldv(xf): let xf$=ans$: else
let xf$=lower(fieldv(xf)): endif : else : let xf$=str(fieldv(xf),3,0)
endif
endproc
proc yorn;line,m$,v$
rem query message (m$) at line for yes or no answer
let ans$="": while ans$<>"y" and ans$<>"n":liny;line,v$
print v$;m$+" [ y/n ] : ":inp: let ans$=lower(ans$): print v$; endwhile
endproc
```

## NEW FROM JOCHEN MERZ SOFTWARE DUISBURG, GERMANY

**QSPREAD** a spreadsheet for the 1990's is now being shipped. Written by Oliver Fink a highly respected guru of the Pointer Environment, QSPREAD can be completely driven by the mouse or the keyboard.

Windows may be enlarged up to the maximum screen area, the application window can be split in up to three different horizontal and vertical sections, giving you nine independent controllable areas.

QSPREAD is formulae-orientated, with the advantage that the formula of every cell may be modified at any time. The formulae-parser has 22 scientific functions, plus the standard ones like Row, Column, Sum, Average, etc., etc. Every cell may be formatted independently with numerous options such as; Justification, Decimal Point, etc.

## NEW FROM MERZ - cont'd

The monetary symbol can be longer than one character, e.g. DM, Sum, etc., plus other often-used macro-functions. Block entry is easy and useful, especially if you have a numerical keypad. You select the block and enter the values one after the other, they are automatically placed in the right order. NO cursor key action is necessary.

The price of QSPREAD is 49 Pounds Sterling. ALL major credit cards accepted. To place an order contact:

JOCHEN MERZ SOFTWARE  
Im stillen Winkel 12  
W-4100 Duisburg 11  
Germany  
Tel: 0203 501 274

*Ed. Note: Jochen Merz's telephone can receive FAX as well as voice communications.*

## SUPER DISK INDEX SAN DIEGO, CALIFORNIA, USA - ALAN HODGE

Dilwyn Jones Computing

Most cataloguing methods applied to collections of items, be they books or chapters in a book, involve relatively complex indexing techniques such as alternating between numerals (Arabic or Roman) and alphabetical characters. On the other hand, it is generally simpler, and often preferable, to use a straightforward numerical order when dealing with collections of closely similar objects such as phonograph records. Thus it is that, what would seem at first to be a major shortcoming of this highly useful program, is actually a blessing in disguise.

The inability to label a disk with anything other than a number from 1 to 999 will definitely motivate less than compulsive QL users to organize their usual haphazard assortment of disks and microdrive cartridges into more rational collections or even sensible groups.

Each disk within a group can then be assigned a suitable number in an appropriately titled Index of directories. I suspect that most users will require several such Indexes in order to adequately cover the various categories of media in their collections. I know I had to, and it has all turned out for the best. I can now find in a remarkably short time any small obscure file hiding anywhere in my collection, and all thanks to the application of the excellent search facilities provided by **Super Disk Index** to my now quite well organized media.

In my own case, because I have two hybrid dual disk drives, one a 3" / 3-1/2" combination, the other a 5-1/4" / 3-1/2" unit, I have so far found it best to make a total of four indexes, viz., one each for the 5-1/4", 3-1/2" and 3" disks, as well as one for my microdrive cartridges.

Fortunately, I had planned that the 3-1/2" drive would in each dual drive unit be designated flp2\_, the usual default data disk. This allows use of the same data disks in both disk drive systems, and also enables me in most cases to transfer operational programs from a 5-1/4" disk via a 3-1/2" to the 3" flp1\_ disk. This is most easily accomplished using Taskmaster in both systems.



## SUPER DISK INDEX - cont'd

**SUPER DISK INDEX** runs very well, and allows the operator to pursue his own aims by means of well designed menus. There are excellent sorting facilities, e.g, even a fairly large index of 1200 files can be alphabetized in less than 13 seconds (with a Gold Card). A most useful feature is that on reverting to disk number order after alphabetizing, it will be found that the individual disk directories are now alphabetical.

The ability of the program to select an appropriate number of columns both on the screen and when printing to paper is very impressive, and saves a lot of paper to boot. In some cases, such as when printing out a listing of files containing a designated "search word", it is wise to allow the program to print to the screen first by refusing the printer prompt, then deciding whether to commit the list to paper. This is easily done by going back and repeating the search. The printing options are also excellent. It is a snap to print out individual disk directories in two or more columns depending on the number of files and length of the file names. The number of columns is 'intelligently' selected by the program, usually with gratifying results. It is equally simple to obtain a nice printout of files selected by the two search techniques available to the user. However, note the caveat in the previous paragraph.

The program lacks one feature which I personally miss. It fails to read and show the name impressed on the disk or cartridge during the formatting process. From my point of view, this is unfortunate because it is right in this name or title that I store relevant information such as the type of program (or its original name), whether it is a backup copy, and so on. This can, of course, be read by any directory routine and would normally be written on the disk label anyway. Still, it would be a nice addition to any update.

A simple program which I have used for years (probably originating from the New England QL group) enables me to print out the name, remaining memory and directory of a disk or microdrive cartridge for storage with these media, and is as follows:

```
100 OPEN #3, ser1: DIR #3, flp1_: STOP
200 OPEN #3, ser1: DIR #3, flp2_: STOP
300 OPEN #3, ser1: DIR #3, mdv1_: STOP
400 OPEN #3, ser1: DIR #3, mdv2_: STOP
```

I usually load it by going to the Superbasic option while running Taskmaster, loading it from one of the disks, then LISTing. The routine is activated by a simple GO TO command and is self-terminating. I have kept a copy of it under the name **DIRprnt** on nearly all my program and data disks so that it would be readily available for loading and implementation. Of course, this should not be as necessary from now on since I shall now be able to instantly find a disk or cartridge containing it on my printout made using the search facility, always assuming I can find the listing. Better yet, I can always load one of my indexes and do a simple visual search.

Writing as a humble, chastened, but now relatively well organized user of QL magnetic media, it gives me great pleasure to heartily recommend this excellent software to all my esteemed QL colleagues.

*Ed Note: See the Dilwyn Jones Computing Ad on the back cover for price and ordering information.*

# CGP-220 COLOR PRINTER CONVERTER

JUPITER, FLORIDA, USA - TAYLOR S. PENROSE

I wrote the program that follows to overcome the difficulty of generating QL characters on my CGP-220 (an older Radio Shack/Tandy printer, which I believe to be one of the first color ink-jet printers). With a little tinkering you can get this program to work with any dot matrix printer. In fact, if you've got the time or inclination, you might make the following changes:

1) Make it so that the QL character code accesses an array of printer character codes.

2) Make it so that your printer will generate the graphics codes to emulate the QL codes your printer will not support directly.

3) If you go for change #1 you'll have to be devious with change #2, as the codes to generate graphics are normally a sequence of codes.

4) Finally, figure out how it can be speeded up.

Good Luck !! I intend to tackle items 1 thru 3, but on item #4 your on your own. Take care for now. If you would like to share input with this project, I can be reached thru IQLR.

```
100 DEFine PROCedure cnvrt(text$)
```

```
110 FOR L=1 TO LEN(text$) :t=CODE(text$(L)) :IF t<127 :NEXT L
```

*(ED NOTE: we are listing the rest of this program in columns and from left to right to save space and to aid in inputing the code.)*

```
120 SElect ON t
```

```
150 =130 :t=211
```

```
180 =133 :t=207
```

```
210 =136 :t=162
```

```
240 =139 :
```

```
270 =142 :t=192
```

```
300 =145 :t=193
```

```
330 =148 :
```

```
360 =151 :
```

```
390 =154 :t=188
```

```
420 =157 :t=180
```

```
450 =160 :t=177
```

```
480 =163 :t=215
```

```
510 =166 :t=212
```

```
540 =169 :t=214
```

```
570 =172 :
```

```
600 =175 :
```

```
630 =178 :
```

```
660 =181 :
```

```
690 =184 :
```

```
720 =187 :
```

```
750 =190 :
```

```
130 =128 :t=182
```

```
160 =131 :t=187
```

```
190 =134 :t=213
```

```
220 =137 :t=205
```

```
250 =140 :t=200
```

```
280 =143 :t=198
```

```
310 =146 :t=199
```

```
340 =149 :t=194
```

```
370 =152 :t=195
```

```
400 =155 :t=196
```

```
430 =158 :t=176
```

```
460 =161 :
```

```
490 =164 :t=178
```

```
520 =167 :t=179
```

```
550 =170 :t=208
```

```
580 =173 :
```

```
610 =176 :t=165
```

```
640 =179 :t=204
```

```
670 =182 :t=169
```

```
700 =185 :
```

```
730 =188 :
```

```
760 =191 :
```

```
140 =129 :t=206
```

```
170 =132 :t=183
```

```
200 =135 :t=184
```

```
230 =138 :t=209
```

```
260 =141 :t=161
```

```
290 =144 :t=189
```

```
320 =147 :t=201
```

```
350 =150 :t=202
```

```
380 =153 :t=203
```

```
410 =156 :t=185
```

```
440 =159 :t=164
```

```
470 =162 :t=210
```

```
500 =165 :
```

```
530 =168 :
```

```
560 =171 :
```

```
590 =174 :
```

```
620 =177 :t=175
```

```
650 =180 :t=220
```

```
680 =183 :
```

```
710 =186 :t=166
```

```
740 =189 :
```

```
800 END SElect :text$(L)=CHR$(t) :END FOR L
```

# A Quantum Leap in QL Wordprocessing

## text<sup>87</sup> plus4

### +1 USER FRIENDLY TO THE EXTREME

You will hardly ever need our new well-written manual. An automatic setup and installation program allows you to select a suitable driver for your printer and copies all the necessary files to your disk. Run plus4 and a menu allows you to load a file or start a new one. An extra line of instructions and another line containing the current setting are displayed. Press <F1> and a window offers more help related to the menu options (context-sensitive). If you select Load you do not have to remember the file name, just press <UP> or <DOWN> for a list. Use the same keys to select the file that you wish and press <ENTER>.

This user-friendly command system governs the program in every area. Extensive context-sensitive help is only an <F1> away. No need to type in file-names, etc. If the program can offer a list in a selector box. Commands and key-presses are highly compatible with those used in Quill and function keys perform the same operations.

### +2 THE MOST POWERFUL QL WP

Plus4 provides all the navigation and editing facilities you would expect and a lot more. Extensive editing facilities include cursor move (by character, word, line, paragraph, screen, page) erase (by character, word, line) block operations (copy, move, delete) goto (line, page, top, bottom, section, block). Insert and overwrite modes. Very fast search and replace backwards and forwards, case dependent and independent. Special characters include hard-space, hyphenation, hard and soft hyphens. In operation plus4 reformat the text as you edit and preserves the format of each paragraph no matter how many different formats you use in your text. Everything is automatic.

As a Quill user you would naturally expect your wordprocessor to remember different tab and margin settings for a document. You would expect to freely add to old texts without having to bother about those settings over and over again. Not surprisingly, text87 is the only other QL program that supports this important, user friendly feature of Quill.

File Operations include load, save, merge, block save (in plain ASCII or as fully formatted document) Import (Quill files retaining bold, underlined, etc. or any other file, including those exported from Archive and Abacus or from other programs). The combination of all these powerful commands enables you to move text from one document to another effortlessly.

Integrated Spell Checker displays selector boxes for browsing the dictionary and automatic replacement of the selected word. This is automatically capitalised if the original began with a capital. Choose between large (over 210,000 words) and small English dictionaries or French or German (all supplied with the program). You can add any word in your text to the dictionary by just pressing a key. Your word lists can be saved and loaded at will or added to the dictionary on a permanent basis. (You can actually edit the dictionaries to your requirements).

Multi-Window Multi-Document plus4 goes far beyond multi-tasking. With one copy of plus4 up to 8 document windows can be open simultaneously. Up to 8 files can be on screen and more than one window can be open over a document so that you can edit the text while looking at a different part of it or at a different document. Resize, Zoom, Tile and Stack commands allow you to arrange the windows manually or automatically and switch instantly between them.

**SPECIAL OFFER!** If you have paid over £59 for any other QL wordprocessor you can upgrade to text87plus4 for only £59. The manual from the other software is required as proof of purchase (It will be punched and returned to you). This special offer expires at the end of August 1992.

For immediate dispatch, send orders (including credit card) to:

Software87, 33 Savernake Road, London NW3 2JU or to our US distributors EMSoff, Boston, MA

Page-Preview and Pagination Page and column ends are constantly displayed on the screen. plus4 takes into account all the changes of line spacing (you can fine tune the line spacing in different parts of the text between 0 and more than 1 inch). The Page preview command shows your text in full A4 (and other size) pages. Each word is represented by a rectangle, giving a realistic picture of the printed page before you commit the text to paper. This command alone will save you a lot of time and effort.

### +3 UNRIVALLED PRINT QUALITY

In text and character formatting, text87plus4 is miles ahead of the so-called competition. Simply, no other QL program can produce similar results. Used with the appropriate printer-driver, text87plus4 can utilise the different fonts and character sizes built into modern printers. It fully supports proportional spacing (such as used for this text) and justifies correctly. You can use any combination of small and large fonts on the same line and be assured of a perfect printed result. You can set up multiple paragraph formats with different margins and line-spacing for each. You can use any combination of ordinary tabs with right, centre and decimal tabs in each line of text. You can also format the page the way you want, using several columns plus headers and footers. For desktop publishing, you can use several different page layouts in the same document.

**WYSIWYG** (what you see is what you get—pronounced wizzy-wig) Several years ago this word referred to the absence of printer control codes from the screen. It is now used to distinguish word-processors which display different amounts of line-spacing and different character sizes and styles (e.g. double width, proportional). text87plus4 is the only QL wordprocessor that can be called WYSIWYG by current standards.

### +4 FASTEST QL WORDPROCESSOR

text87plus4 is much faster than the so-called competition. Tested on a QL with memory expansion, text87plus4 reformatted a document of 385 lines after changing its right margin in 5 seconds, the other wordprocessor took 280 seconds! (this is not a printing error). Plus4 completed an automatic search/replace (58 instances) in the same document in 5 seconds, the other program took 120 seconds! Even a single paragraph reformat took 6 times longer on the other program. Scrolling the screen line-by-line was 65% faster with plus4. The speed increase was even more (over 110%) when tested on an Atari. The test document was an ordinary text included on the plus4 disk. Plus4 was set up with a screen font similar to the other program's.

plus4 is supplied with over 30 ready-made printer drivers supporting 9pin and daisywheel printers. Extra drivers for 24pin, Bubblejet, Deskjet and laser printers support the resident letter-quality fonts built into the printer. All our drivers come with predefined translates for QL's extended character set.

More information on printer drivers is available on request

plus4 is fully compatible with all QL roms. Gold Card, ST QL, etc. Requires disk drive and 256K memory.

**Prices (inclusive of Air Mail to overseas)**

text87plus4	£ 79.00
upgrade to plus4 from v. 3.00 (limited period)	£ 39.00
2488 drivers for 24pin and Bubblejet printers	£ 19.00
typeset90-deskjet drivers for all HP Deskjets	£ 19.00
typeset90-Epson GQ3500/5000, EPL4100 /7100 lasers	£ 39.00
fonttext88 + fonttext89	£ 39.00
Graphic driver for 9 & 24-pin printers with over 30 fonts	



## **HELPFUL HINT #1 - UN-NUMBERED BOOT PROGRAMS**

BANGOR, GWYNEDD, GREAT BRITON - DILWYN JONES

Following up a hint in a previous issue, boot programs do not have to be manually typed in to add line numbers. You can, of course, load them into an editor and manually add line numbers, but it is much easier to let the QL do it automatically.

This method has been tested on version JM and JS QL's and with the Gold Card, but not on JSU, Minerva, or ST-QL's.

Type NEW to clear out the old BASIC program. Type AUTO as if starting to enter a new program. The line number 100 will appear on the first line. Delete this number using the standard CTRL LEFT or DEL keys (depending on the type of keyboard). You can now enter direct commands.

Type in MERGE "flp1\_BOOT" (or other applicable device). The QL will load the BOOT program adding line numbers it as it goes. When it has finished loading, press BREAK (CTRL space) to get out of the numbering and then save the numbered BOOT program!

My thanks to Norman Dunbar (author of WINBACK) for that little hint.

## **NEW !!! HERMES CO-PROCESSOR from QVIEW LONDON, UNITED KINGDOM**

The QL's second processor, the Intelligent Peripheral Controller (IPC 8049), handles sound and the serial port, as well as keyboard input. The code in the present 8049 suffers from a number of problems:

**SERIAL INPUT** - Suffers from bad handshaking which can result in a loss of characters, and worst yet a 'serial overrun' which can only be cured by a power-down.

**KEYBOARD HANDLING** - Key rollover doesn't work, and some keyboards, especially the SCHON and KEYBOARD PRODUCTS, suffer from keybounce. There is a 'debounce' 8749 available, but this destroys SER2 input.

**BAUD RATES** - Independent rates are not possible. Input at 9600 requires 2 stop bits, and 19200 baud is impossible.

**SOUND** - Fuzzy and RANDOM on sound shift the underlying pitch. Sound duration is dependent on pitch.

**ENTER HERMES !!!** The new HERMES co-processor corrects all of the above problems. There's NO keyboard bounce, 2 key ROLLOVER even with shift, and fully reliable SERIAL INPUT up to 19200 baud with 1 stop bit. (This assumes the IC25 output buffer is fully functional, and handshaking is enabled at both ends and connected).

Different baud rates for SER1 and SER2 input lines, and separate from output. This can be used to drive a serial mouse AND a printer from SER1 at the same time. Open/closed status of serial ports can be read.

## HERMES CO-PROCESSOR - cont'd

There is code to handle 3 spare I/O lines, one of which is used by the QVIEW capsled kit. Three more input lines can be read. Key click can be toggled on and off, Reset/INT7 can be invoked much more safely, and there is a function to return IPC version number.

The cost of the new HERMES Co-Processor is 25 Pounds Sterling, both VISA and MASTERCARD are welcomed. You can purchase HERMES from:

TF SERVICES  
12 Bouverie Place  
London W2 1RB  
United Kingdom  
Tel: 071 724 9053

Fitting HERMES is a simple job, remove the top of the QL 'carefully' (removing the 8 screws), replace the large IC marked '8049 next to microdrive 1. CAREFULLY re-assemble your QL. A small extensions file needs to be loaded with RESPR. HERMES is shipped with a manual and Software, please specify disk or microdrive cartridge.

## HELPFUL HINT #2 - USING PRINTER CONTROL CODES IN QUILL

BANGOR, GWYNEDD, GREAT BRITON - DILWYN JONES

Provided your printer is set to ignore the MSB (*Most Significant Byte*) of byte values sent to it, (many are shipped with this as a default setting and normally this can be changed by a DIP switch inside the printer or from software), it is possible to send control codes by using CHR\$(155) from the keyboard while in Quill.

On British QL's pressing CTRL and semi-colon produces an u with a circumflex accent on top of it, which is CHR\$(155).. CHR\$(155) is CHR\$(128+27), in other words if bit 7 is ignored, the 128 is not read and you are left with CHR\$(27), which is the character code for ESC. CHR\$(155) may be in a different place on the keyboard in different countries so you have to find it first! This opens up all sorts of possibilities. By following this character with selected characters many printer codes can be generated. For example, following it with a "4" switches italics on, while "5" turns italics off. Following it with "M" switches to Elite pitch printing, while "P" gives Pica pitch printing. "w1" gives double height characters ("w0" cancels it) if the printer concerned supports double height characters and "W1" (*Ed Note: Printer control codes are upper and lower case sensitive*) gives double width, while "W0" turns it off again. No doubt readers will find other ways of making use of this. It enables us to stretch that little bit extra from good old Quill WP.

## A PORTABLE FORTH MODEL, eFORTH

FUENGIROLA, MALAGA, SPAIN - SALVADOR MERINO

*Salvador Merino has gratuitously provided this version of FORTH to readers of IQLR. In order for you to determine if this package is something you might be interested in, we have printed below, the starting instructions and sample entries. Instructions for obtaining a copy of eFORTH are provided at the end of the article.*

## **eFORTH - cont'd**

eFORTH is the name of a FORTH model designed to be portable between a large number of the newer and more powerful processors existing now, or becoming available in the near future. eFORTH for the QL is a version 32 bits absolute address and 32 bits stack.

### **STARTING eFORTH**

To START eFORTH: Put eFORTH disk into FLP1. Then POWER QL ON and press the F1 key. You will see the eFORTH sign-on message:

```
eFORTH v1.03.
```

Push the <ENTER> key a number of times and you will see a series of 'ok' appear on the left margin of your screen. eFORTH is now ready to accept commands.

To exercise eFORTH and to learn some of the more useful words in this system, try the following words:

```
WORDS <ENTER>
```

Names of about 200 words will appear on the screen (remember any key to continue and ENTER key to abort). These are the words that eFORTH has in its dictionary. Word names are not wrapped around the end of line. You will see names split between two lines. eFORTH is a very lean system. Cosmetics were not a major concern in its present design.

eFORTH is case sensitive. Most words are in the upper case. Many system words not intended for applications programming have lower case characters to make them difficult to enter on the terminal. If you are not sure of the spelling of a word, consult the system using WORDS command.

Type in a sequence of numbers, like:

```
1 2 3 4 5 6 7 <ENTER>
```

eFORTH will echo an 'ok' at the end of the line. These numbers are pushed on the data stack. To verify that they are indeed pushed on the stack, type:

```
.S <ENTER>
```

You will see the stack picture on the next line:

```
1 2 3 4 5 6 7 <sp ok
```

with these numbers on the stack, type some arithmetic commands like:

```
+ * .S <ENTER>
```

You will see:

```
1 2 3 4 65 ok
```



## **eFORTH - cont'd**

eFORTH is the name of a FORTH model designed to be portable between a large number of the newer and more powerful processors existing now, or becoming available in the near future. eFORTH for the QL is a version 32 bits absolute address and 32 bits stack.

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eFORTH v1.03.
```

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```

with these numbers on the stack, type some arithmetic commands like:

```
+ * .S <ENTER>
```

You will see:

```
1 2 3 4 65 ok
```

---

# MIRACLE SYSTEMS

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*14 day money back guarantee*

## GOLD CARD

*If you're still not a member of the user club, QUANTA, then there's no time like the present to contact Bill Newell, the Membership Secretary, 213 Manor Road, Benfleet, Essex, SS7 4JD, tel. (0268) 754407 and join.*

Who is the GOLD CARD for? Well, if you ask anybody who's already got one they'll tell you everyone should have one. The principal benefit is the speed. Programs are typically accelerated by a factor of four. The subjective effect of this is to give the QL a completely new feel. There's also a battery-backed clock which keeps track of the time while the QL is switched off so you don't need to enter the time and date when you switch on the QL.

A standard disk drive connector lets you couple the GOLD CARD to the old style 720K drive or the new dual 3.2M drive which, for many users, is an excellent alternative to a hard disk.

We've also put 2M of RAM on board so you can run more tasks simultaneously and manipulate larger blocks of data like Quill documents. Best of all though, why not come to one of the venues listed opposite and see the Gold Card in action. If you want to see what difference the Gold Card will make to you then please bring along the software you are familiar with. We look forward to seeing you.



**2 YEAR  
WARRANTY**

*Gold Card Owners  
The latest ROM  
version is 2.28. If  
you have an earlier  
version please  
contact us for a free  
upgrade.*

**MIRACLE SYSTEMS Ltd, 25 Broughton Way, Osbaldwick,  
York, YO1 3BG, U.K. Tel: (0904) 423986**

## eFORTH - cont'd

Where 65 is the result of  $(6+7)*5$ . The following commands are interesting to try:

+ - \* / MOD AND OR XOR INVERT

Numbers and words must be separated by spaces. If you run two words together without separating spaces, like:

123+456 <ENTER>

eFORTH will echo:

123+456 ?

It complains that it does not understand 123+456, which is neither a command nor a number. Define and the new command:

: TEST FOR R@ . NEXT ; <ENTER>

Type WORDS to see that TEST is added to the dictionary. To exercise TEST, type:

10 TEST <ENTER>

and you will see:

10 9 8 7 6 5 4 3 2 1 0 ok

displayed after the 10 TEST command.

DUMP is a useful command to examine a range of memory. Try the following commands (Remember any key to continue and ENTER key to abort):

NP @ 100 DUMP

NP contains a pointer to the top of the name dictionary. NP @ gets the pointer and 100 DUMP displays the contents of 100 bytes starting from the top of the name dictionary. You will see some of the names in the dictionary displayed in the ASCII dump field.

SEE allows you to decompile a word compiled in the dictionary. Type:

SEE DUMP <ENTER>

and you will see the tokens which make up the command DUMP displayed on the screen. Remember any key to continue and ENTER key to stop. SEE is pretty dumb. It does not stop at the end of the token list of DUMP.

There are many excellent book introducing FORTH to first time users. This is certainly not a proper place to present exhaustive tutorials. The file eFORTH\_glossary\_txt contains the all commands available in the eFORTH system.

## **eFORTH - cont'd**

### **eFORTH QDOS COMMANDS**

FORTH.- No in dictionary  
doVOC.- No in dictionary

LOAD\_FILE.- Load source code from a text file storage (LOAD\_FILE flp1\_source\_fth).

QPACKS.- Same as PACK\$, but moves and converts the string at byte address with word count to a packed string at address \$ (The Standard QDOS).

TRAP1 (d2/a3 d1 d0 -- d2 d1 d0)

TRAP2 (d0 d3 a0 -- a0 d0)

TRAP3 (d0 d2 a0 a1 -- a1 d1 d0)

TRAP3\* (d0 d2 a0 a1 d1 -- a1 d1 d0)

VEC\_UT (a1 a0 d1 Vector\_num -- d3 d0)

#IN (-- addr) Variable which holds the current input ID.

#OUT (-- addr) Variable which holds the current out ID.

#DEFAULT (-- addr) Variable which holds original console ID.

Free space is only 16 Kbytes. If you wish more, for GOLD CARD type:

278528 CP ! <ENTER>  
2097152 NP ! <ENTER>

Now you have a free space of 1818624 Bytes.

eFORTH for QL  
Salvador Merino  
\*CTRA CADIZ, CERAMICAS MARY  
29640 TORREBLANCA DEL SOL  
FUENGIROLA (MALAGA)  
SPAIN

eFORTH for PC  
Dr. C. H. Ting  
156 14th Avenue  
San Mateo, CA 94402  
(415) 571-7639

*Ed. Notes: eFORTH for the QL has been placed in the public domain, and can be obtained from IQLR by sending a FORMATTED DISK and \$2.00 US funds to cover postage.*

## **maus.comp.ql**

BONN, GERMANY - FRANZ HERRMANN

This article is intended for QL users who have access to Usenet or any other means to receive such conferences or forums. Intl.QL is an international area to discuss anything related with the QL. It originates from the QBOXnet, an independent private network of bulletin boards (Fido) which run on QLs or compatible machines.



## maus.comp.ql - cont'd

Intl.QL is spread widely throughout Europe, as you can see from the following list. Most of these boards run 24h and offer more QL or Sinclair interest groups (eg. C, Minerva, Quanta, Spectrum):

Fourth dimension	+44-202600305	(England)
Grizzilius Maximus	+44-772828975	(England)
TF services	+44-717062379	(England)
Blanford-BBS	+44-258455117	(England)
Aspects	+44-617920260	(England)
QUANTA NE BBS	+44-914775472	(England)
Jamten TCL	+46-64133330	(Sweden)
Andromeda BBS	+39-6-3251114	(Italy)
Lau's Place	+44-253780021	(England)
SYNCNET	+31-35-237178	(Holland)
QLAT	+31-30-962265	(Holland)
KU-EL-TEL	+31-1650-37105	(Holland)

Additionally, there is a gateway to the German MAUS network. This is an ideal starting place. Hans Höscher (Hans\_Hoelscher @ hb.maus.de) recently convinced the MAUS officials to send Intl.QL to a UUCP site which forwards it to the University of Oldenburg. This university is a true Internet system and willing to send the Intl.QL as **maus.comp.ql** to any other Internet system on this planet. So far I know this is free.

It is necessary to write a message to Jörg Lehnert

Joerg.Lehnert @ arbi.informatik.uni-Oldenburg.de

who is the responsible postmaster at the university. He knows everything about possible feeds to transport **maus.comp.ql** to other networks. Please, support this project!

A note for those who do not fully understand this article. It refers to communication via electronic mail. There is rapidly growing activity around the QL in this area. The long codes with an '@' inside are Internet addresses, mine is

"Franz\_Herrmann @ bn.maus.de".

Internet is an organization with links to nearly all existing networks. (Ed Note: See Tim Swenson's associated article in the last issue of IQLR).

## READING MSDOS DISKS ON THE QL - PART II: Copying MSDOS Files

OAK RIDGE, TENNESSEE, USA - Mel LaVerne

Part I contained a brief description of the MSDOS disk organization. Table 1, below, expands on that description to include placement of clusters. The tabular form should allow visualization of interrelations among the disk parameters superior to any verbal description. For instance, the expressions in Procedure trise should be fairly readily derivable from the Table. I have terminated the table with Track 2 because the patterns should be apparent by that time. "a" and "b" indicate the first and second sectors of a pair,

## COPYING MSDOS FILES - cont'd

whether in a File Allocation Table (FAT) or a Cluster (CI).

Sectors	Track 0		Track 1		Track 2	
	Side 0	Side 1	Side 0	Side 1	Side 0	Side 1
0	Boot Rec	Dir 5	CI 5a	CI 9b	CI 14a	CI 18b
1	FAT 1a	Dir 6	CI 5b	CI 10a	CI 14b	CI 19a
2	FAT 1b	Dir 7	CI 6a	CI 10b	CI 15a	CI 19b
3	FAT 2a	CI 2a	CI 6b	CI 11a	CI 15b	CI 20a
4	FAT 2b	CI 2b	CI 7a	CI 11b	CI 16a	CI 20b
5	Dir 1	CI 3a	CI 7b	CI 12a	CI 16b	CI 21a
6	Dir 2	CI 3b	CI 8a	CI 12b	CI 17a	CI 21b
7	Dir 3	CI 4a	CI 8b	CI 13a	CI 17b	CI 22a
8	Dir 4	CI 4b	CI 9a	CI 13b	CI 18a	CI 22b

Table 1. MSDOS Disk Organization.

The following program copies a file directly from an MSDOS disk and places it, temporarily, in a ram disk. Carriage returns are deleted from the line terminators so that they conform to QL usage. The MSDOS program is otherwise unchanged. If desired, the file may be copied to a floppy disk. Note that at this point the file has not been subjected to syntax checking.

Be warned that a BAS extension on an MSDOS program does not guarantee readability, i.e., that the copy will look like Basic. You may have encountered a compiled program. I can only say, try it; if the result looks like garbage, try another.

BAT, EXE, COM extensions offer little hope of anything useable.

TXT, DOC extensions indicate probable text files. I say probable because I have, for instance, encountered DOC files consisting entirely of Basic PRINT statements; sort of self-documenting files.

The program, complete with explanatory comments, follows:

```
1000 REMark File = MS_QL   Copy MSDOS files to QL   M. E. LaVerne  6 June 1992
1010 :
```

As before, a bit of tidying up; in particular, we make sure that the ram disk is empty. Dimensions of the d\$ array were derived as follows. We read 512 bytes at a time, so that the length of d\$ cannot exceed 512. The shortest line consists of a single digit, a space, a colon, and a line feed, four bytes; there are 9 such lines. Line numbers from 10 to 99 yield 90, five byte lines; and, finally, line numbers 100 to 103 give four more lines of six bytes each. The byte count is then,  $9*4 + 90*5 + 4*6 = 36 + 450 + 24 = 510$  bytes. Hence, we cannot have more than 103 lines in a sector. These are not very realistic lines, to be sure, but I simply wanted an upper limit.

```
1020 CLEAR: Close45: FORMAT ram1_: CLS: CLS #0: DIM d$(103,512)
1030 INPUT 'Name of ram1_ file ? ' ; name$: name1$ = 'ram1_' & name$
```

## COPYING MSDOS FILES - cont'd

Open an input file for direct access; open a ram disk for output

```
1040 OPEN _IN #4; 'flp2_*d2d': OPEN_NEW #5; name1$
```

The initial cluster is obtained by reference to the root directory of Part I; generally, the clusters will be contiguous, so that the final cluster will be one less than the first cluster of the next program in the directory.

```
1050 INPUT 'Initial cluster ? '; cli, 'Final cluster ? '; clf\
1060 PRINT #0; 'Cluster: '; TO 14; 'Track: '; TO 25; 'Side: '; TO 34; 'Sector:'
1070 :
```

Now look at all the clusters.

```
1080 FOR cluster = cli TO clf
```

Procedure trsise finds the track, side, and sector corresponding to the cluster (this is the same procedure that was used in Part I).

```
1090 trsise cluster, track, side, sector
1100 AT #0; 0,9: PRINT #0; cluster;
1110 AT #0; 0,21: PRINT #0; track;
1120 AT #0; 0,31: PRINT #0; side;
```

clloff is the offset from the initial sector in a cluster; clusters are taken to have two sectors. Hence, clloff is 0 or 1.

```
1130 FOR clloff = 0, 1
1140   sec = (sector + clloff) MOD 9
1150   at #0; 0,42: print #0; sec;
```

Here we test to see whether we swap sides.

```
1160 IF sector = 8 AND sec = 0 THEN
1170   side = NOT side : AT #0; 0,31: PRINT #0; side;
1180 END IF
```

Now calculate position on the disk and read a sector.

```
1190 GET #4\1 + sec + 256*side + 131072*track, a$
1200 k = 1: flag = 0: b$ = "      (Ed: two apostrophes)
1210 FOR i = 1 TO 512
1220   c$ = a$(i): c = CODE(c$)
```

Test the character c\$: discard a CR; or, add a LF, save d\$, advance the string count, and set a flag indicating completion of at least one line. Otherwise, add a character to the string b\$ (non-printing characters are indicated by '.').

## COPYING MSDOS FILES - cont'd

```
1230  SElect ON c
1240    = 13: REMark Discard CR character
1250    = 10: b$ = b$ & c$: d$(k) = b$: b$ = ": k = k + 1: flag = 1 (apostrophes)
1260    = 32 TO 126 : b$ = b$ & c$
1270    = REMAINDER : b$ = b$ & ' '
1280  END SElect
1290  END FOR i
```

If the flag is set, print the d\$ array ; otherwise, print b\$.

```
1300  IF flag THEN
1310    FOR j = 1 TO k-1: PRINT d$(j);: PRINT #5; d$(j);
1320  ELSE
1330    PRINT b$;: PRINT #5; b$;: b$ = " (apostrophes)
1340  END IF
```

It is possible that the flag was set and that, subsequently, b\$ received some input. So, test for a non-empty b\$ here.

```
1350  IF b$ <> " THEN PRINT b$;: PRINT #5; b$;: b$ = " (apostrophes)
1360  BEEP 10000,5
1370  END FOR cloff
1380  END FOR cluster
1390 :
1400 Close45: PRINT "\"Finished. Press any key to continue.": PAUSE
1410 :
```

Optional copy of ram disk to floppy disk.

```
1420 REPeat to_disk
1430  PRINT \"Copy ' name1$; ' to disk ? (Y/N) ';; cpy$ = INKEY$(-1)
1440  PRINT cpy$: IF cpy$ = "Y" OR cpy$ = "N" THEN EXIT to_disk
1450  END REPeat to_disk
```

If option is to copy, select the drive here.

```
1460 :
1470  IF cpy$ = "Y" THEN
1480    REPeat drive
1490    PRINT \"Copy to which drive ? (1/2) ';; drv$ = INKEY$(-1)
1500    PRINT drv$: IF drv$ = "1" OR drv$ = "2" THEN EXIT drive
1510  END REPeat drive
1520  COPY name1$ TO 'flp' & drv$ & '_' & name$
1530  END IF
1540 :
```

Option to keep or delete the file on ram disk.

```
1550 REPeat delet
1560  PRINT \"Delete ' name1$; ' ? (Y/N) ';; kill$ = INKEY$(-1)
1570  PRINT kill$: IF kill$ = "Y" OR kill$ = "N" THEN EXIT delet
```



```
1580 END REPEAT delet
```

## **COPYING MSDOS FILES - cont'd**

```
1590 IF kill$ == "Y" THEN DELETE name1$: PRINT \name1$; ' deleted.\n
1600 :
```

Avoids those nasty "in use" remarks by the computer.

```
1610 DEFine PROCedure Close45
1620  CLOSE #4, #5
1630 END DEFine Close45
1640 :
```

Finds track, side, and sector from cluster number. The sector number is for the initial sector in the cluster.

```
1650 DEFine PROCedure trsise(clus,tr,si,se)
1660  LOCAL x: x = clus + 4
1670  tr = INT(x/9): x = x - 9*tr
1680  si = (x >= 5): se = 2*x - 9*si
1690 END DEFine trsise
```

In Part I, I said that the only item of interest in the boot record was the DOS version; this is not quite right. I've also said that "generally" the file clusters follow one after the other. But, suppose they don't, what then ? Next time, we'll look at the boot record in gory detail to see just what information is available. We'll also analyze the FAT to determine just where all those clusters are.

### **ADDITIONAL REFERENCE**

4. The Peter Norton Programmer's Guide to the IBM PC. Microsoft Press. 1985.

## **FLIGHTDECK - A REVIEW**

BROOKLYN, NEW YORK, USA - JOE LA PUNZINA

As the name implies, FLIGHTDECK is a flight simulation program for the QL. The cost of the program including shipping and handling is 15 Pounds Sterling. It is available from:

DELTASOFT  
11 Dumaine Avenue  
Stoke Gifford, Bristol BS12 6XH  
United Kingdom

The instruction manual supplied is clear and concise, and very easy to follow. A second copy of the manual is included on the program disk, a handy item to have if your like me, and like to have a copy to work with. The only difference in the disk copy is the absence of the figures and charts on pages 13, 14, 15, and 16.

When using the program it's best to plan your flight ahead of time, selecting those beacons (for use when instrument flying to keep your aircraft headed on the proper course), and ILS (Instrument Landing System) frequency for final approach to the airport. Plan your flight from origin to destination, selecting those beacons that will keep your flight as direct

## **FLIGHTDECK REVIEW - cont'd**

It takes a little practice landing, as the author notes in the manual, as your flying a twin engine passenger plane having considerable mass. I had several mishaps in landing (I'm glad its just a simulation) until I got the hang of it.

I would have liked to have found in this program the following:

- a) A compass as well as latitude and longitude grid lines on the two area charts.
- b) Area charts that included all of the airfields, and beacons that are listed in Flight Simulation programs.
- c) A locator that would pinpoint your location at any time in the flight. This would allow you to see how closely your following the plotted course. (this could also simulate ground control tracking of your aircraft).

Inclusion of the above items would go a long way in eliminating guesswork (especially for someone living in a country other than Great Briton), and would be a more professional package.

It would have been nice to have a demo showing the novice pilot what he could expect to see as he/she approached a beacon, and how to change frequencies to continue the flight. Seeing what could be expected as the ILS frequency is activated for the final approach to a successful landing.

In conclusion, FLIGHTDECK is an interesting program and is well written. If your looking for a challenge, that requires you to plan ahead, and then seeing how closely you follow your plan, then this is your cup of tea.

## **QL SPARES & REPAIRS**

NEWPORT, RHODE ISLAND, USA - BOB DYLL

A growing number of our North American readers have written us concerning SPARE PARTS and/or QL REPAIRS. We find that this is a worldwide concern of many QLER's. Therefore the reason for this article.

Some companies or individuals may be listed more than once, this is due to multiple services offered. As we have personally dealt with the great majority of the listed companies, we feel secure in sharing them with you all. The listings are in alphabetical order.

For complete spare computers two companies come to mind. They are:

EEC LIMITED  
18-21 Misbourne House, Chiltern Hill  
Chalfont St. Peter, Bucks SL9 9UE  
United Kingdom  
Tel: 0753 888 866

MECHANICAL AFFINITY  
513 East Main Street  
Peru, IN 46970  
U.S.A.  
Tel: 317 473 8031

## QL SPARES AND REPAIRS - cont'd

Spare parts may be purchased from :

ADMAN SERVICES  
53 Gilpin Road, Admanston  
Telford, Shropshire TF4 3PR  
United Kingdom  
Tel: 0952 255 895

CARE ELECTRONICS  
15 Holland Gdns. Dept. QL  
Garston, Watford, Herts. WD2 6JN  
United Kingdom  
Tel: 0923 894 064

COWO ELECTRONICS  
Munsterstr. 4  
CH-6210 Sursee  
Switzerland  
Tel: 045 211 478

GUSTAFSSON KNUTSSON ELEKTRONIK  
Box 4082  
431 04 Molndal  
Sweden  
Tel: not available

MECHANICAL AFFINITY  
513 East main St.  
Peru, IN 46970  
U.S.A.  
Tel: 317 473 8031

SUREDATA  
Unit 6, Stanley House  
Wembley, Middx. HA0 4JBQ  
United Kingdom  
Tel: 01 902 5218

JOE ATKINSON  
36 Ranelagh Road  
Ealing, London W5 5RJ  
United Kingdom  
Tel: not available

COMPUTER CLASSICS  
RR 1, Box 117  
Cabool, MO 65689  
U.S.A.  
Tel: 417 469 4571

EEC LIMITED  
18-21 Misbourne House, Chiltern Hill  
Chalfont St. Peter, Bucks SL9 9UE  
United Kingdom  
Tel: 0753 888 866

JOCHEN MERZ SOFTWARE  
Im Stillen Winkel 12  
W-4100 Duisburg 11  
Germany  
Tel: 0203 501 274

OMNIDALE LIMITED  
23 Curzon Street  
Derby DE1 2ES  
United Kingdom  
Tel: 0332 291 219

TF SERVICES  
12 Bouverie Place  
London  
United Kingdom  
Tel: 071 724 9053

Last but not the least, is a listing of companies and individuals who do QL repairs:

ADMAN SERVICES  
53 Gilpin Road, Admanston  
Telford, Shropshire TF4 3PR  
United Kingdom  
Tel: 0952 255 895

COWO ELECTRONICS  
Munsterstr. 4  
CH-6210 Sursee  
Switzerland  
Tel: 045 211 478

COMPUTER CLASSICS  
RR 1, Box 117  
Cabool, MO 65689  
U.S.A.  
Tel: 417 469 4571

ROBERT GILDER  
69 Jefferson Place  
Massapequa, NY 11758  
U.S.A.  
Tel: 516 541 2271

## QL SPARES AND REPAIRS - cont'd

### QUANTUM ELECTRONIC SERVICES

33 City Arcade  
Coventry CV1 3HX  
United Kingdom  
Tel: 0203 224 632

### MECHANICAL AFFINITY

513 East Main Street  
Peru, IN 46970  
U.S.A.  
Tel: 317 473 8031

### SUREDATA

Unit 6, Stanley House  
Wembley, Middx. HA0 4JBQ  
Tel: 01 902 5218

At the time of writing, all of the companies and individuals listed were servicing the QL community. This article does not purport to list all of those servicing the QL, but those who come to mind.

In addition, many USER GROUPS offer these services to their members (a good reason to join a group). A few that I know of are:

N.A.S.A  
Nerheim  
N-5580 Olen  
Norway

QITALY CLUB  
Via Brescia 26  
25039 Travgliato (BRESCIA)  
Italy

SINCLAIR QL USER CLUB e.V.  
Talstrasse 21  
W-5460 OCKENFELS  
Germany

We hope the information contained in this article is useful to those of you who might require the help offered by the companies and individuals listed.

## THE LONELY JOKER

TIVERTON, RHODE ISLAND, USA - DICK TAYLOR

The Lonely Joker is an excellent implementation of the card game Solitaire (Patience). When used with a mouse, this version is certainly equal to or better than the ones bundled with "Windows" for the IBM or commonly found on the Macintosh.

The Lonely Joker was developed by the Hit & Do Development Team in Portugal in conjunction with Jochen Merz of Germany. The program package comes on a single disk and includes a seven page manual (approximately 4" x 5"). The type on the instruction manual is very small, and as my eyesight is no longer what it was when I was younger, coupled with a tendency to keep the area around my computer fairly dark, made for very difficult reading. I finally ended up enlarging the instructions to 8.5" x 11". To be fair, you really don't need the instructions if you are familiar with the rules and objectives of the three different variants, (Echelon, Napoleon and Cascade).

The Lonely Joker requires QJump's Pointer Environment, Jochen Merz's Menu extensions, (both included on the disk), Super Toolkit II and at least 256Kb of memory expansion. The games are considerably more playable by using the QIMI Mouse although they can be played using a joystick or the keyboard alone. If you don't have a QIMI interface, this game alone would make it worth while obtaining it, or the serial mouse driver (also from Jochen Merz), reviewed in the last issue of IQLR. I found that when using the joystick or cursor keys that cursor movement slowed down considerably when you were in the vicinity of the "deck". This was not noticeable when using the mouse.



## LONELY JOKER - cont'd

The Lonely Joker when used with QPAC2 can be put to sleep (close down the application onto a button) and later awakened by clicking on the button with the mouse or hitting the <ENTER> key when the cursor is over the button.

The program comes bundled with a good configuration program, (QJumps standard configuration utility), that allows you to easily change the startup parameters such as the initial game type, the board color, warning beep, maximum number of turns and whether a Queen can be placed over a King (Cascade only).

These options as well as several others are also available within each game on pulldown menus from a menu bar across the top of the screen. Additional options include; saving or loading a previously saved game, auto finish, which when set will allow The Lonely Joker to finish the game for you as soon as it determines that the game can be completed, the number of turns through the deck that will be allowed in Echelon 1 and 3 and if you want a redeal.

The screen resolution of the cards is excellent although I found it to be considerably better on the black screen than the green which is the default. The green is the standard QL green and is a little too bright. If the green could be darkened with a stipple pattern to something closer to the color of the felt on a pool table, I think it would make a tremendous difference in the contrast. When you reach the end of an unwon game a message pops up on the screen informing you of the number of cards left. This message is in white and difficult to read against the green background. This is not a problem with the black screen. I also found that it was slightly more difficult to distinguish between clubs and spades against the green than against the black. I don't want to form the wrong impression, certainly the green screen is very playable and in any case can be easily changed to black if you prefer.

### THE GAMES

Echelon 1: This is the standard classic solitaire card game with 28 cards dealt face down into seven ranks and the last card dealt face up on each rank. The remaining cards are placed face down and form the deck. The object is to form four foundations (one for each suit) and build them sequentially from the Ace through the King. This is accomplished by moving cards from the ranks and the closed deck onto the foundations. When you have no moves from the ranks, you can turn the next card over on the closed deck. Once you have run through the closed deck you can turn the cards and start through the deck again. This can be limited to allow you to only go through the deck two or three times.

This game can be played against time taken to solve, but I think it could be enhanced with the addition of a casino option where you pay 52 dollars, (marks, pounds, francs, etc.) for the deck and receive 5 dollars, (marks, pounds, francs, etc.) for every card placed on the foundation. This win or loss would carry forward from game to game. The most money won could then be written to a high score table.

Echelon 3: This game is similar to Echelon 1, except three cards at a time are turned over from the closed deck. *(Bob Dyl has completed this game in 2 minutes 49 seconds with a mouse and playing left-handed, (he's right-handed). He challenges anyone to beat this time).*

Napoleon: This game known as the "King of patiences" was supposedly created by Napoleon during his exile on the isle of Sainte Helene. This game is different in that all the

## **LONELY JOKER - cont'd**

cards are placed face up. The documentation for this game had some errors in it. The examples didn't match the illustration and I was unable to completely figure out the rules for manipulating the cards onto the foundations. As I understand the instructions, Lonely Joker will move a card placed temporarily in the cellar onto an open space in the bottom rank. I was unable to get this to happen and consequently was unable to get very far with this game. I am unsure if this was a bug in the program, incompatibility with GOLD CARD/MINERVA, or much more likely, operator error.

Cascade: This is the simplest of the three games as far as strategy goes, but the hardest to finish. The cards are laid out in seven ranks of five cards each (face up), a single card face up which forms the pile, and the remainder of the cards face down in a stack. The object is to place all cards on a single pile. The card placed on the pile must be immediately of a higher or lower value than the top card (without regard to suit or color). The only exceptions to this is that no card may be placed on a King and only a Two can be placed on an Ace.

The Lonely Joker is a program that will provide many hours of enjoyment and I would unequivocally recommend it to anyone.

## **ESTATE SALE**

We have recently been notified of the availability of a Miracle Systems GOLD CARD with the latest version of the ROM for \$325. If you think you might be interested, contact Bob at IQLR.

## **INTERNATIONAL COMPUTER GLOSSARY**

TIVERTON, RHODE ISLAND, U.S.A. - DICK TAYLOR

I thought this might be a good time to bring you up to date on the status of the International Computer Glossary, especially to those that worked so hard to provide input and resolve discrepancies.

This project has grown considerably from what I had first envisioned as well as taking much longer than expected. In it's initial publication, the glossary will be comprised of eight languages, English, German, Italian, Spanish, Dutch, Norwegian, Swedish and French.

The major delay to publication right now is the receipt of the French and Swedish translations, which are both being worked on.

The response was overwhelming and for some languages I received four different sets of translations. This was often a mixed blessing as seldom did they agree. This led to additional correspondence to try and arrive at the best of the available choices.

One of the other problems we encountered was that often, there is no one word equivalency between the languages. Another problem is how the word is being used, i.e. verb, noun, adjective, transitive verb, etc. This all had to be judged against the main objective of the project, which was to allow the QL community worldwide to replace the on-screen text and

## GLOSSARY - cont'd

prompts of public domain software written in various other languages.

Six of the languages are in the database and we hope to start distribution of the Glossary shortly after receiving the two missing translations.

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written by Dilwyn Jones

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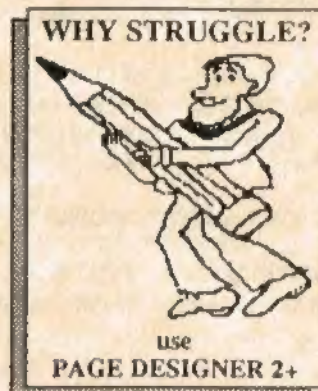
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